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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/023,207		12/13/2001	Darryl Franklin Clark	KCC-15,966	2652	
35844	7590	01/29/2004		EXAMINER		
PAULEY P 2800 WEST		EN KINNE & ERIO S road	YAO, SAMCHUAN CUA			
SUITE 365			ART UNIT	PAPER NUMBER		
HOFFMAN ESTATES, IL 60195				1733		

DATE MAILED: 01/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

4 4	Application No.	Applicant(s)	
	10/023,207	CLARK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sam Chuan C. Yao	1733	
The MAILING DATE of this communi iod for Reply	cation appears on the cover sheet wit	th the correspondence address	
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC. Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm. If the period for reply specified above, the maximum star I NO period for reply is consided above, the maximum star Fallure to reply within the set or extended period for reply Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a re unication. of days, a reply within the statutory minimum of thirty tutory period will apply and will expire SIX (6) MONT will. by statute, cause the ancilication to become AR.	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. MDDNED GRUS C 813	
1) Responsive to communication(s) file	d on <u>11 August 2003</u> .		
a) ☐ This action is FINAL. 21	o)⊠ This action is non-final.		
3) Since this application is in condition f closed in accordance with the practic			
osition of Claims			
4) Claim(s) 1-26 is/are pending in the appearance of the above claim(s) 23-26 is/are 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict	e withdrawn from consideration.		
lication Papers			
The specification is objected to by the control of the drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to the control of the	a) ☐ accepted or b) ☐ objected to b tion to the drawing(s) be held in abeyand the correction is required if the drawing(s	ee. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
rity under 35 U.S.C. §§ 119 and 120	by the Examiner. Note the attached	Office Action of form F 10-152,	
Acknowledgment is made of a claim farmed a Acknowledgment is made of a claim farmed Acknowledgment is made of a claim farmed Acknowledgment Acknowle	locuments have been received. locuments have been received in Ap f the priority documents have been r al Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Acknowledgment is made of a claim for since a specific reference was included 37 CFR 1.78.	domestic priority under 35 U.S.C. §	119(e) (to a provisional application	
 a) ☐ The translation of the foreign lang ☐ Acknowledgment is made of a claim for 			

Disposition of Claims 4) Claim(s) 1-26 is/are pending in the applica 4a) Of the above claim(s) 23-26 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction a Application Papers 9) The specification is objected to by the Exa 10) The drawing(s) filed on _____ is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for fo a) ☐ All b) ☐ Some * c) ☐ None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for don since a specific reference was included in th 37 CFR 1.78 a) The translation of the foreign language 14) Acknowledgment is made of a claim for dom reference was included in the first sentence of the specification or in an Application Data Sheet, 37 CFR 1.78, Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other: PTOL-326 (Rev. 11-03) Office Action Summary Part of Paper No. 20040124

Period for Renly

Status

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-22, drawn to a method of making an absorbent non-woven web, classified in class 156, subclass 167.
 - Claims 23-26, drawn to an absorbent nonwoven web, classified in class
 442, subclass 327.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, such as forming a nonwoven multicomponents filamentary web and then welding absorbent particles onto and into the web.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Mr. Roland Norris on 08-11-03 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-22. Affirmation of this election must be made by applicant in replying to this

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Office action. Claims 23-26 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention. Another call was made for Mr. Norris to elect between various species. However, it did not result in election being made. In any event, such is moot since the requirement for Applicant to elect species is being withdrawn, after reading WO 00/29658. The disclosure of WO '658 would appear to suggest that various species are obvious variant over each other.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite, because it is unclear what is taken to be a sheath of a multicomponent filament when the filament is a side-by-side multicomponent filament. For the purpose of examining this limitation, the recited sheath is taken to be a lower melting component (i.e. binder) of a multi-component filament.

Claim 3 is indefinite, because the limitation "the activated and densified web" does not have a positive antecedent basis. For the purpose of examining this claim, this claim is assumed to be dependent on claim 2 instead of claim 1.

Claim 7 is indefinite, because it is unclear which component's melting point of a multi-component spunbond filament is being compared with the melt point of melt-blown filament. Does this claim require having the melting point of a melt-blown filament to be lower than all components of a multi-component spunbond filament.

Claim 8 is indefinite, because it is unclear which component's melting point of a multi-component spunbond filament is being compared with the melt point of melt-blown filament. Does this claim require having the melting point of a melt-blown filament to be greater than all components of a multi-component spunbond filament.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1, 4-6, 9-12, and 15-22 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/29658.

WO '658 discloses a process of making absorbent non-woven web, the process comprises:

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 a) forming bi-component filaments by extruding an array of molten thermoplastic filaments into an air-stream;

- combining/commingling super-absorbent articles and/or pulp fibers with the bicomponent filaments in the air-stream
- c) cooling the filaments;
- d) collecting the filaments and commingled super-absorbent particles and/or pulp fibers onto a forming conveyor to form a fibrous web;
- e) passing the web through a through-air bonding operation to improve bonding of the particulate materials in the web; wherein the air is "sufficiently hot to melt one of the polymers of which the fibers of the web" at a dwell time as long as 6 seconds (page 3 last paragraph to page 4 1st full paragraph; page 5 last paragraph to page 6 paragraph 4; page 8 full paragraph 1; page 11 full paragraph 3; page 14 full paragraphs 1-3 (especially last paragraph); page 15 lines 1-3 and last two lines; page 16 lines 1-6).

Although not expressly disclosed, melted components of bi-component filaments would naturally flow around the particulate materials in the web, thereby, wetting a majority of the super-absorbent particles and/or pulp fibers.

With respect to claim 4, see page 8 full paragraphs 1-2.

With respect to claim 5, page 3 last two lines to page 4 line 9; page 15 last two paragraphs to page 16 line 6.

With respect to claim 6, page 11 full paragraphs 2-3.

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With respect to claim 9, see the incorporated cited patents on page 5 and on page 10 full paragraph 1.

With respect to claim 10, see page 12.

With respect to claim 11, see page 8 lines 1-6.

With respect to claim 12, see page 3 full paragraph 4.

With respect to claim 15, see page 9 full paragraph 2.

With respect to claims 16-18, see page 7 full paragraph 1.

With respect to claim 19-21, see page 20, claims 19-21.

With respect to claim 22, see page 6 full paragraph 4.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO
 00/29658 as applied to claim 5 or 6 above.

With respect to claims 7-8, WO '658 teaches forming a mixture of bicomponent spunbond filaments and bicomponent melt-blown filaments; accordingly, the spunbond filaments are used to impart greater strength, while the melt-blown filaments are used to capture and entangle pulp fibers/superabsorbent particles. In another embodiments, WO '658 further teaches using a mixture of bicomponent

spunbond filaments and melt-blown filaments (need not be bicomponent); wherein the melt-blown filaments are used as a binder material, which has "a relatively low melting point" (page 11 last two full paragraphs). Therefore, depending on the desired end-use of the melt-blown filaments, it would have been obvious in the art in the art to either use a relatively high melting point melt-blown filaments (for use in capturing and entangling absorbent materials) or use a relatively low melting point

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12. Claims 2-3 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/29658 as applied to claim 1 above, and further in view of Jackson et al (US 5,350,370).

melt-blown filaments (for use as a binder material).

It would have been obvious in the art to densify a fibrous web taught by WO '658 at a pressure, temperature and time to obtain a 0.1-0.3 g/cc density web, because Jackson et al discloses a desirability of heat-pressing a fibrous absorbent web for a sufficient time to activate binder fibers in the web, thereby bonding and compacting the web to a density of 0.1-0.5 g/cc (abstract; col. 7 line 27 to col. 8 line 38).

13. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/29658 as applied to claim 1 above, and further in view of Haynes et al (US 6,019,152).

It would have been obvious in the art to subject a fibrous web on a forming wire with a forced air heater, as such is conventional in the art in order to enhance the structural integrity of a non-woven web as exemplified in the teachings of Haynes et al (col. 2 lines 19-52; figure 8)

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Chuan C. Yao whose telephone number is (571) 272-1224. The examiner can normally be reached on Monday-Friday with second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Sam Chuan C. Yao Primary Examiner Art Unit 1733

Scy 01-24-04